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TITLE: RUBBER COMPOSITION FOR TYRES, REINFORCED WITH A
CARBON BLACK COATED
WITH AN ALUMINOUS LAYER

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ABSTRACT:

CHG DATE=19990803 STATUS=O>The invention concerns a sulphur-vulcanisable rubber composition, capable of being used for making tyres, comprising at least a diene elastomer, a reinforcing filler and a coupling agent ensuring the bond between the reinforcing filler and the elastomer. The invention is characterised in that said reinforcing filler consists

wholly or partly of a modified carbon black having the following characteristics:

- (i) it is coated at least partly with an aluminium oxide and/or hydroxide layer;
- (ii) its specific BET surface ranges between 30 and 400 m²/g;
- (iii) its average particle size (in volume), marked d_v , ranges between 20 and 400 nm;
- (iv) its deagglomeration rate, marked α , measured by the so-called ultrasound-deagglomeration test, at 10 % of the power of an ultrasound probe of 600 watts, is greater than $1 \cdot 10^{-3}$ m/s.